

P-W

DUVAL CORPORATION #6 STATE 1-63
NE NE Sec. 36-T19N-R25E APACHE COUNTY

1-63

County Apache
Area Holbrook Basin
Lease No. State

Well Name Duval Corporation #6 State

Location NE NE Sec 36 Twp 19N Range 25E Footage 270' FNL - 150' FEL
Elev 5528' Gr KB Spud 11-18-63 ~~Completed~~ Abandon 11-29-63 Total Depth 1342'

Contractor _____

Casing Size 4-1/2" Depth 1220' Cement _____
Drilled by Rotary _____
Cable Tool _____
Production Horizon _____
Initial Production _____

REMARKS Drilled as a potash test.

See File for Core Lithology. (Footage 1221'-1342')

Elec Logs Gamma Ray-Neutron;
Applic. Plugging Completion
to Plug Record x Report x

Sample Log _____
Sample Descript. _____
Sample Set P-1333
Core Analysis _____
DSTs _____

Water well accepted by _____

Bond Co. _____
& No. None

Bond Am't \$ _____ Cancelled _____ Date _____
Organization Report None

Filing Receipt _____ Dated _____ Well Book x Plat Book x

API No. 02-001-05107 Loc. Plat _____ Dedication None
None

Permit Number None Date Issued _____

file 1-63

WELL COMPLETION OR RECOMPLETION REPORT AND WELL LOG									
DESIGNATE TYPE OF COMPLETION:									
New Well <input checked="" type="checkbox"/>	Work-Over <input type="checkbox"/>	Deepen <input type="checkbox"/>	Plug Back <input type="checkbox"/>	Same Reservoir <input type="checkbox"/>	Different Reservoir <input type="checkbox"/>	Oil <input type="checkbox"/>	Gas <input type="checkbox"/>	Dry <input type="checkbox"/>	
DESCRIPTION OF WELL AND LEASE									
Operator DUAL CORPORATION				Address 4715 E. FT. LOWELL RD. TUCSON, ARIZONA					
Lease Name				Well Number 6		Field & Reservoir			
Location 270' SOUTH & 150' WEST OF N.E. COR. SEC. 36; T19N, R25E									
County APACHE		Permit number		Date issued		Previous permit number		Date issued	
Date spudded 11-18-63		Date total depth reached 11-29-63		Date completed, ready to produce		Elevation (DF, RKB, RT or Gr.) feet		Elevation of casing hd. flange feet	
Total depth 1338		P.B.T.D.		Single, dual or triple completion?			If this is a dual or triple completion, furnish separate report for each completion.		
Producing interval (s) for this completion				Rotary tools used (interval)			Cable tools used (interval)		
Was this well directionally drilled?		Was directional survey made?		Was copy of directional survey filed?			Date filed		
Type of electrical or other logs run (check logs filed with the commission) GAMMA RAY-NEUTRON								Date filed	
CASING RECORD									
Casing (report all strings set in well—conductor, surface, intermediate, producing, etc.)									
Purpose	Size hole drilled	Size casing set	Weight (lb./ft.)	Depth set	Sacks cement	Amt. pulled			
TUBING RECORD					LINER RECORD				
Size in.	Depth set ft.	Packer set at ft.	Size in.	Top ft.	Bottom ft.	Sacks cement	Screen (ft.)		
PERFORATION RECORD					ACID, SHOT, FRACTURE, CEMENT SQUEEZE RECORD				
Number per ft.	Size & type	Depth Interval		Am't. & kind of material used			Depth Interval		
INITIAL PRODUCTION									
Date of first production			Producing method (Indicate if flowing, gas lift or pumping—if pumping, show size & type of pump:)						
Date of test	Hrs. tested	Choke size	Oil prod. during test bbls.	Gas prod. during test MCF	Water prod. during test bbls.	Oil gravity * API (Corr)			
Tubing pressure	Casing pressure	Cal'd rate of Pro- duction per 24 hrs.	Oil bbls.	Gas MCF	Water bbls.	Gas-oil ratio			
Disposition of gas (state whether vented, used for fuel or sold):									
<p>CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am the..... of the</p> <p>..... (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.</p>									
Date					Signature				
					<p style="text-align: center;">STATE OF ARIZONA OIL & GAS CONSERVATION COMMISSION</p> <p style="text-align: center;">Well Completion or Recompletion Report and Well Log</p> <p style="text-align: center;">Form No. P-7 File two copies</p> <p style="text-align: center;">Authorized by Order No. <u>4-8-59</u></p> <p style="text-align: center;">Effective <u>April 8,</u> 19 <u>59</u></p>				

Hole No.Interval (feet)Formation or Member

5

Ground elevation 5959'

0-7
7-38
38-
512-
730
870-
930-1077
1077-1393
1393-
1465Dune Sand
Bidahochi
Upper Petrified Forest
Lower Petrified Forest
Top of greenish-grey unit
Shinarump
Lower Wupatki
Coconino
Supai
Top of 1st marker Anhydrite

6

Ground elevation 5525'

0-
130-
602-
623-788
788-1096
1096-
1214Upper Petrified Forest
Lower Petrified Forest
Shinarump
Lower Wupatki
Coconino
Supai
Top of 1st marker Anhydrite

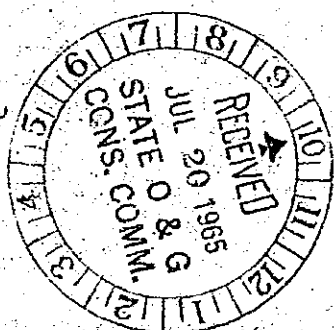
7

Ground elevation 3868'

0-5
5-45
45-
556-
680
978-1020
1020-1146
1146-1387
1387-
1491Dune Sand
Bidahochi basal cong. (?)
Upper Petrified Forest
Lower Petrified Forest
Top of greenish-grey unit
Lower Wupatki
Kaibab
Coconino
Supai
Top of 1st marker Anhydrite

8

Ground elevation 5390'

0-
184-333
333-622
622-
764Lower Petrified Forest
Lower Wupatki
Coconino
Supai
Top of 1st marker Anhydrite

1-63

PLUGGING RECORD

[illegible]

DUVAL CORPORATION
INTER-OFFICE MEMORANDUM

FROM NAVAJO
TO TUCSON
SUBJECT: DOVAL # 6

DATE 1/16/64
ATTENTION B.G. MESSER

DATE STARTED	<u>11/15/63</u>
DATE COMPLETED	<u>11/29/63</u>
G.L. ELEV	<u>5528</u>
T.D.	<u>1338</u>
CASING	<u>1225</u>
ELEV. C.O.D.	<u>4740</u>
ELEV. TOP SALT	<u>4293</u>
ELEV. KCI	<u>4252-43</u>

Top Colo → A
429'

5528
4293
1235

Form 3
2M Sheets 5-54

DUVAL SULPHUR & POTASH COMPANY
POTASH DIVISION
CARLSBAD, NEW MEXICO

WHILE WE BELIEVE THIS INFORMATION TO BE
CORRECT, WE MAKE NO REPRESENTATION WITH
RESPECT TO, NOR DO WE ASSUME ANY RESPONSIBILITY
FOR, THE CORRECTNESS THEREOF.
DUVAL CORPORATION

CORE LITHOLOGY

WELL NO. 6

DEPTH (Feet)		INTERVAL		ESTIM. %		DESCRIPTION
From	To	Feet		Shale	P	
Abbreviations:						H - Halite K - Kieserite
						A - Anhydrite Le - Leonite
						P - Polyhalite K - Kainite
						S - Sylvite L - Langbeinite
						C - Carnallite
						fg - Fine grained med. g. - medium grained
						cg - coarse grained clr - clear
						incl. - inclusions occ. - occasional
						irreg. - irregular
1221	0					Started Coring
1221	0	1228	2	7	2	5 95 A, gray, v.f.g.; becomes gray, clayey toward base.
1228	2	1237	0	8	8	100 - Clay-silt, red-brn., little gray, soft to med. hard.
1237	0	1237	7	0	7	- 100 A, gray, v.f.g.
1237	7	1244	1	6	4	95 5 Clay-silt, red-brn., very little gray; 1.0 in. A
						band at top; clay is soft to med. hard.
1244	1	1248	4	4	3	2 98 A, lt. to med. gray, fine grained; thin red clay
						parting near base.
1248	4	1248	6	0	2	100 - Clay, soft, brn.
1248	6	1249	9	1	3	25 - H, med. g., not very clr., some soft brn. clay to
						med. hard silt incl., 1" band at 1248.7, 1/2" band
						at 1249.4.
1249	9	1250	4	0	5	50 - Clay, red-brn., soft, irreg. & H, fg. to med., in
						bands & irreg. zones.
1250	4	1251	9	1	5	15 - H, c.g., some irreg. small-large red-brn. clay-silt
						incls.
1251	9	1252	8	0	9	80 - Clay-silt, brn., grainy, med. hard; some irreg. c.
						to v.c.g. blebs of H.
1252	8	1255	5	2	7	95 - Silt stone, c.g.tan, med. hard; red-brown clay near
						base; occ. large irreg. H blebs.
1255	5	1259	7	4	2	2 - H, clr. c.g., some med. red clay incl. in upper ft.
1259	7	1261	1	1	4	15 - H, somewhat etched & pitted med.; some irreg. soft
						brn. clay incl.

DUVAL SULPHUR & POTASH COMPANY

WELL NO. 6

CORE LITHOLOGY

PAGE NO. 2

DEPTH (Feet)		INTERVAL		ESTIM. %		DESCRIPTION
From	To	Feet		Shale	P	
1261 1	1262 1	1 0	-	-	-	H, clr., c.g.; pitted salt ends at 1262.1'.
1262 1	1263 1	1 0	15	-	-	H, clr., med. c.g., some small-large brn. clay inclcs. grading out down.
1263 1	1263 7	0 6	-	1	-	H, clr., med., very few small A/P stringers near middle.
1263 7	1266 3	2 6	70	-	-	Clay-silt, red-brn, med. hard; some irreg. H, c.g.
1266 3	1272 8	6 5	20	-	-	H, clr., med. c.g.; some small to large irreg. red-brn. clay-silt, med. hard inclcs. & stringers.
1272 8	1273 4	0 6	80	-	-	Clay-silt, brn. med. hard; some irreg. thin bands & veinlets of H, f.g.
1273 4	1275 0	1 8	8	-	-	H, clr., med. to c.g.; some irreg. med. to large brn. clay inclcs.
1275 0	1276 8	1 8	2	1	-	H, clr., med. c.g.; few small gray A blebs & stringers in upper half; few very small red clay inclcs. in lower half.
1276 80	1277 80	1 00	-	2	-	H, v. clr., c.g. to very c.g.; few small A/P pink-grey stringers near top & base; occ. small clear S, blebs. Est. K ₂ O/S = 2%.
1277 80	1279 23	1 43	-	2	-	H, very clr., med.-c.g.; some clr. to milky S, bands in lower 1/2; occ. small A/P pink stringers. Est. K ₂ O/S = 15%.
1279 23	1280 20	0 97	-	4	-	H, very clr., med.; some S, clr. to milky, med., in lower 1/2; about 1/2 in. band light grey A, stringers at top & base; Est. K ₂ O/S = 6%.
1280 20	1280 72	0 52	-	4	-	H, very clr., med., to c.g.; some irreg. S, clr., med.; about 1/2 in. zone white A, stringers at base; K ₂ O/S = 3%.
1280 72	1281 20	0 48	-	1	-	H, very clr., med., to c.g.; some irreg. pink-milky S, blebs in lower 1/2; occ. small white A, stringers. Est. K ₂ O/S = 10%.
1281 20	1282 40	1 20	-	10	-	H, clr., med.; interbedded with A, gray, A grading out down; some irreg. f.g. red-milky S, zones. Est. K ₂ O/S = 10%.

DUVAL SULPHUR & POTASH COMPANY

WELL NO. 6

CORE LITHOLOGY

PAGE NO. 3

DEPTH (Feet)				INTERVAL		ESTIM. %		DESCRIPTION
From	To	Feet		Feet		Shale	P	
1282	40	1283	80	1	40	8	1	H, fine to med. grained; $\frac{1}{2}$ in. gray to brn. clay parting at top; some small brn. clay inclusions decreasing down; very few irreg. small S, blebs. Est. $K_2O/S = 3\%$.
1283	80	1285	75	1	95	8	2	H, med.; some irreg. small-med. brown clay incl.; few irreg. med. gray A, incl. in lower $\frac{1}{2}$ ft.; very few small small-med. red-milky S, blebs. Est. $K_2O/S = 2\%$.
1285	75	1286	80	1	05	2	2	H, clr., med.; thin gray clay stringer at middle; few small white A, blebs in lower $\frac{1}{2}$; occ. small milky-red S, blebs. Est. $K_2O/S = 2\%$.
1286	80	1287	85	1	05	-	3	H, clr., med.; few med. white A, stringers; occ. milky med. S, blebs. Est. $K_2O/S = 1\%$.
1287	85	1292	5	4	65	25	-	H, F. to c.g.; clay-silt, red-brn., irreg. small to large incl. & large stringers; 0.2' clay band at base; 1" band of C., clr.-gray, v.f.g., at 1288.5. 2% C.
1292	5	1293	3	0	8	10	1	H, med.-f.g.; some large brn. clay incl.; few small pink A/P blebs.
1293	3	1293	8	0	5	60	-	Clay-silt, red-brn., med. hard, irreg.; H, med. to c.g., irreg.
1293	8	1297	75	3	95	3	-	H, f.s. to c.g., clr.; few small red-brn. clay incl. grading out down.
1297	75	1300	20	2	45	-	3	H, very clr., med. c.g.; few irreg. white-light gray A stringers with H, intergrowths. $\frac{1}{2}$ in. A, band at 1299.50. bottom 3 in. H, very clr., very c.g.; very occ. small pink-milky S, blebs. Est. $K_2O/S = 2\%$.
1300	20	1301	95	1	75	-	2	H, clr. c.g.; some med. red-gray A/P stringers in lower $\frac{1}{2}$; some small red-brn. clay incl. in upper $\frac{1}{2}$ ft.; occ. med. pink S, blebs. Est. $K_2O/S = 1\%$.
1301	95	1304	5	2	55	-	5	H, clr, med.; $\frac{1}{2}$ " gray A, band at base, few scattered pink A blebs in top 2/3.

